

## **DRAFT**

### **NESDIS NPOESS Civil Sector Central Data Processing and Distribution FY05 Initiative**

We need to include the archive aspects in this initiative. Current CLASS funding is not sufficient to cover both the development and the operations and maintenance. This initiative would be an excellent avenue to correct the O&M part for CLASS. I've added some words to that effect.

After speaking with John Phillips, he said that they don't need the "Proposed Actions" section in this go-around.

**NESDIS Office:** OSD, OSDPD, ORA, NCDC, NODC, NGDC

**Description:** This initiative funds development and implementation of upgrades required for the data processing, product development and distribution functions within NESDIS to provide the final link between NPOESS (IPO-provided) generic products and the NOAA central-unique products needed to fulfill user requirements. The initiative also funds the operations and maintenance of the Comprehensive Large Array-data Stewardship System (CLASS) which will provide the long-term archive and access to the NPP and NPOESS data to ensure its availability during and beyond the NPP and NPOESS missions. The NPOESS Preparatory Project, (NPP), the risk reduction program for NPOESS is scheduled for launch in 2006. This program, the precursor for the NPOESS satellite to be launched in 2009, will produce 90 percent of the data expected from NPOESS. The NPP will provide a prototype Interface Data Processing Segment (IDPS) located at NESDIS that will provide Raw Data Records (RDRs), Sensor Data Records (SDRs), and Environmental Data Records (EDRs) to NASA for science evaluation for the operational NPOESS and processing to climate level products. However, there is no program to fully optimize the risk reduction effort of this program by processing for and allowing assessment by the operational user community (i.e., NWS Numerical Weather Prediction). NESDIS needs to further process these data into NOAA user-unique products to allow NWS, NOS, NMFS and OAR users to conduct impact assessments to their operational missions. These NPP assessments will lead to both early fulfillment of several NPOESS requirements and assures a minimal assimilation and application period for the first operational NPOESS -- with users already accessing, processing and evaluating NPP data in a demonstration mode they will be ready for operational NPOESS data upon launch and checkout, eliminating the historical months to year characterization of new datasets.

#### **Proposed Actions:**

This initiative supports development and implementation of upgrades at numerous sites within NESDIS. As a coordinated system, these upgrades will provide NESDIS with the overall capability of ingesting, processing, product preparation, archive, and distribution of the NPP/NPOESS data. The specifics of the required upgrades are as follows.

Within IPD, CEMSCS will be the NPP/NPOESS Central and will host the IDPS. The Central is required to ingest NPP data records, reformat the data to meet end-user format requirements, product higher level and blended products, and distribute the data.

Numerous platforms exist within IPD and SSD that utilize the data sets to create products. Continuity of current products and development of new products require upgrades to the product systems to handle changes resulting from the new instruments. Product science, i.e. product development, algorithm development, and calibration/validation, must provide viable data integration techniques to allow the new data to meet the current user requirements, and maximize the benefit of the new data through existing products as well as new products.

**Funding Profile (in thousands of dollars):**

Approp	FY05	FY06	FY07	FY08	FY09	Total
ORF	TBD*	TBD*	TBD*	TBD*	TBD*	TBD**
PAC	TBD*	TBD*	TBD*	TBD*	TBD*	TBD**

\*Funding estimates have not yet been thoroughly reviewed by all parties

\*\*Total initiative should exceed \$60,000k

	FY05	FY06	FY07	FY08	FY09	Total
Ingest						
Comm						
Processing						
Product Development						
Infrastructure						
Archive						
Distribution						

	Positions	FTE's
<b>Government</b>	TBD	TBD
<b>Contractor</b>	TBD	TBD

**Related Initiatives:**

NOAA Joint Center for the Exploitation of Satellite Data for Climate  
Level 0 EOS, NPP, NPOESS, CLASS-infrastructure

**Partnerships (existing)**

*NOAA Line Offices (NWS, NOS, NMFS, and OAR)* – Support presently provided for specific mission critical observational requirements.

**Identify NOAA Performance Measures Supported by This Initiative :**

Validation of NOAA's timeliness requirements for product processing and distribution to users

**Offset(s): Identify the amount of base funds that can be directed towards this effort and what will not be accomplished as a result of this realignment:**

None